

ABSTRACT OF THE DISCLOSURE

Embodiments of wavelength tunable lasers are disclosed. The wavelength tunable lasers include thermo-optic organic material that has an index of refraction that can quickly vary in response to changes in temperature. By controlling the temperature
5 in the thermo-optic organic material through the use of heaters or coolers, the wavelength tunable lasers and the integrated optical components can be quickly and selectively tuned over a broad range of wavelengths with high spectral selectivity.